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EXAMINER

DUONG, THOMAS

ART UNIT PAPER NUMBER

2145

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/661,030

Applicant(s)

PAGE ET AL.

Examiner

Thomas Duong

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9, 11-17, 19-35, 37-43, 45-61, 63-69, 71-87, 89-95, and 97-104 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-17, 19-23, 26-35, 37-43, 45-49, 52-61, 63-69, 71-75, 78-87, 89-95, 97-101, and 104 is/are rejected.
- 7) ☒ Claim(s) 24-25, 50-51, 76-77, and 102-103 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. This office action is in response to the applicants Amendment filed on June 27, 2005. Applicant amended *claims 1, 11, 14, 23, 26-27, 37, 40, 49, 52-53, 63, 66, 75, 78-79, 89, 92, 101, and 104*. *Claims 1-9, 11-17, 19-23, 26-35, 37-43, 45-49, 52-61, 63-69, 71-75, 78-87, 89-95, 97-104* are presented for further consideration and examination.

Response to Argument

2. Applicant's arguments presented in amendment filed June 27, 2005, with respect to *claims 1-9, 11-17, 19-23, 26-35, 37-43, 45-49, 52-61, 63-69, 71-75, 78-87, 89-95, 97-104* have been fully considered and are persuasive. The previous rejection has been withdrawn.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. *Claims 1-9, 11-17, 19-23, 26-35, 37-43, 45-49, 52-61, 63-69, 71-75, 78-87, 89-95, 97-101, and 104* are rejected under 35 U.S.C. 103(a) as being unpatentable over Lautmann

(US006560644B1), in view of Willie et al. (US006052724A), and further in view of Galtzur et al. (US005778394).

5. With regard to claims 1, 27, 53 and 79, Lautmann discloses,

- *detecting the presence of at least one of the plurality of network devices on the network by using a first communication protocol; (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-22; col.4, lines 62-65; module 204, fig.2)*

Lautmann teaches of detecting the presence of a DLSw router (network device) on the network by receiving a registration message from the DLSw router. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

- *obtaining, by using the first communication protocol, from the detected network device, information related to the corresponding network device; (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-23, lines 30-32; module 204, fig.2)*

Lautmann teaches of obtaining information related to the DLSw router such as the network address, number of packets transmitted/received, number of corrupted packets, etc. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

Art Unit: 2145

- *monitoring for issuance of an update message from the directory server indicating that a directory entry has been updated in the directory server;*
(Lautmann, col.5, lines 38-46; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service.

- *obtaining, in the case that an update message is issued, the updated directory entry from the directory server by using the second communication protocol;*
(Lautmann, col.5, lines 38-46; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service.

- *extracting updated data from the updated directory entry; and* (Lautmann, col.5, lines 38-46, lines 65-67; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service and processing the message.

- *sending the updated data to the network device which corresponds to the updated directory entry for placement into the information of the corresponding network device.* (Lautmann, col.5, lines 38-46, lines 65-67; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service and processing the message.

However, Lautmann does not explicitly disclose,

- *formatting the obtained information into a directory entry; and*
- *sending the directory entry to a directory server by using a second communication protocol;*

Willie teaches,

Art Unit: 2145

- *formatting (invoking suitable functions) the obtained information into a directory entry (data module entry); and (Willie, col.8, lines 6-18; module 68; fig.2)*
- *sending the directory entry to a directory server (directory service 62) by using a second communication protocol (any distributed directory service, i.e. Novell Directory Services, LDAP); (Willie, col.7, line 56 – col.8, line 2; col.8, lines 23-45; module 62, fig.2)*

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Willie with the teachings of Lautmann to enable for managing a distributed directory service which uses standard management protocols to generate notifications of events occurring within the distributed service. Furthermore, Lautmann and Willie do disclose a method that manage a plurality of network devices by first detecting their presence and obtaining related information using a first protocol; then, formatting (converting) the obtained information and register it as a directory entry in the directory server; and finally, monitoring for update message from the directory server, obtaining it, and processing it.

However, Lautmann and Willie do not explicitly disclose,

- *wherein the directory entry is formatted according to a standardized schema, and wherein the standardized schema of the directory entry includes a source flag to indicate the source of the directory entry.*

Galtzur teaches,

- *wherein the directory entry is formatted according to a standardized schema, and wherein the standardized schema of the directory entry includes a source flag to indicate the source of the directory entry. (Galtzur, col.41, lines 36-48)*

Galtzur teaches of utilizing an identifier flag to indicate the source of the associated data contained in the directory entry.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Galtzur with the teachings of Lautmann and Willie to enable for managing a distributed directory service which uses standard management protocols to generate notifications of events occurring within the distributed service and utilizing an identifier flag to indicate the source of the associated data contained in the directory entry. Furthermore, Lautmann and Willie do disclose a method that manage a plurality of network devices by first detecting their presence and obtaining related information using a first protocol; then, formatting (converting) the obtained information and register it as a directory entry in the directory server; and finally, monitoring for update message from the directory server, obtaining it, and processing it.

6. With regard to claims 2-3, 28-29, 54-55 and 80-81, Lautmann and Willie disclose,
 - *wherein the first communication protocol is a network management protocol.* (Lautmann, col.1, lines 61-65; col.1, line 67 – col.2, line 2; col.2, lines 63-65; Willie, col.2, lines 24-51; col.3, lines 3-9)
 - *wherein the first communication protocol is SNMP.* (Lautmann, col.1, lines 61-65; col.1, line 67 – col.2, line 2; col.2, lines 63-65; Willie, col.2, lines 24-51; col.3, lines 3-9)
7. With regard to claims 4-6, 30-32, 56-58 and 82-84, Lautmann and Willie disclose,

Art Unit: 2145

- *wherein the second communication protocol is a directory-based protocol.* (Willie, col.7, line 56 - col.8, line 2; col.8, lines 23-45; module 62, fig.2)
- *wherein the second communication protocol is Lightweight Directory Access Protocol.* (Lautmann, col.3, lines 19-28; col.6, lines 21-46, lines 47-63; col.7, lines 1-16, lines 42-45)
- *wherein the second communication protocol is x.500 directory protocol.*
(Lautmann, col.3, lines 19-28; col.6, lines 21-46, lines 47-63; col.7, lines 1-16, lines 42-45)

8. With regard to claims 7-8, 33-34, 59-60 and 85-86, Lautmann and Willie disclose,

- *sending a broadcast query message in the first communication protocol; and*
(Lautmann, col.1, lines 61-65; col.1, line 67 – col.2, line 2; col.2, lines 63-65)
- *receiving a reply message in the first communication protocol from each of the plurality of network devices that supports the first communication protocol,*
(Lautmann, col.1, lines 61-65; col.1, line 67 – col.2, line 2; col.2, lines 63-65)
- *wherein, the reply message contains network identification information related to the corresponding network device that sent the reply message.* (Lautmann, col.1, lines 61-65; col.1, line 67 – col.2, line 2; col.2, lines 63-65)

9. With regard to claims 9, 35, 61 and 87, Lautmann and Willie disclose,

- *wherein the information from each detected network device contains network-related information, feature information and status information for the corresponding network device.* (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-23, lines 30-32; module 204, fig.2)

Lautmann clearly teaches of obtaining information related to the DLSw router (i.e. network device) such as the network address, number of packets transmitted/received, number of corrupted packets, etc. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address, data rate in bytes per second or packets per second, etc. to the Network Management Server.

10. With regard to claims 11, 37, 63 and 89, Lautmann and Willie disclose,

- *wherein each directory entry is formatted according to a standardized schema and a schema extension.* (Willie, col.7, lines 56-57; col.8, lines 6-18; module 68; fig.2)

Willie teaches of formatting the obtained information into a data module in the *"directory service, and preferably comprises a distributed directory service"* (col.7, lines 56-57) such as Novell Directory Services (NDS). Furthermore, according to Willie, the interfacing between the two information protocols is done *"by directly invoking suitable functions in data module, or indirectly through, for example, an application programming interface (API)"* (col.8, lines 7-9) *"as long as API is also modified to properly interface with data module"* (col.8, lines 14-15).

11. With regard to claims 12-13, 38-39, 64-65 and 90-91, Lautmann and Willie disclose,

- *wherein the step of sending each directory entry to the directory server includes sending an entry-addition message in the second communication protocol to the*

Art Unit: 2145

directory server for each directory entry, wherein each entry-addition message contains the corresponding directory entry. (Willie, col.7, lines 56-57; col.8, lines 6-18; module 68; fig.2)

- *wherein, in the case that an error message is received from the directory server in response to the entry-addition message which indicates that a directory entry already exists for the corresponding network device, an entry-modify message in the second communication protocol is sent to the directory server to replace the directory entry for the corresponding network device. (Willie, col.7, lines 56-57; col.8, lines 6-18; module 68; fig.2)*

Willie teaches of formatting the obtained information into a data module in the *"directory service, and preferably comprises a distributed directory service"* (col.7, lines 56-57) such as Novell Directory Services (NDS). Furthermore, according to Willie, the interfacing between the two information protocols is done *"by directly invoking suitable functions in data module, or indirectly through, for example, an application programming interface (API)"* (col.8, lines 7-9) *"as long as API is also modified to properly interface with data module"* (col.8, lines 14-15). Thus, Willie teaches of both adding and modifying entries in response to their respective instructions.

12. With regard to claims 14, 23, 40, 49, 66, 75, 92, and 101, Lautmann and Willie disclose,

- *wherein the standardized schema of the directory entry includes a source-flag to indicate the source of the directory entry, wherein the source-flag is set to a high state in the formatting step to indicate that the directory entry contains*

information obtained from the corresponding network device. (Lautmann, col.4, line 66 – col.5, line 30)

Lautmann teaches of a new entry in the directory database of the directory service is created upon receipt of a registration message submitting information from the router itself. Lautmann implies that the registration message is a special message, and therefore is distinguished from successive updating messages through the use of a state indication, which in this case is a registration notice.

13. With regard to claims 15, 41, 67 and 93, Lautmann and Willie disclose,

- *monitoring, by using the first communication protocol, each of the detected network devices for an update of the information of the network device;*

(Lautmann, col.5, lines 38-46; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service.

- *obtaining, in the case that the information of one of the detected network devices has been updated, the updated information from the corresponding network device by using the first communication protocol; and (Lautmann, col.5, lines 38-46; module 330, fig.2)*

Lautmann teaches of waiting (monitoring) for update message from the directory service.

- *sending the updated information to the directory server by using the second communication protocol for placement into the directory entry for the corresponding network device. (Lautmann, col.5, lines 38-46, lines 65-67; module 330, fig.2)*

Lautmann teaches of waiting (monitoring) for update message from the directory service and processing the message.

14. With regard to claims 16, 42, 68 and 94, Lautmann and Willie disclose,

- *sending, on a frequent basis, a change query message in the first communication protocol to each detected network device; and*
- *receiving a change indication message in the first communication protocol, in reply to one of the change query messages, from each detected network device in which the information block has changed. (Lautmann, col.5, lines 16-30, lines 38-46; module 330, fig.2)*

Lautmann teaches of waiting (monitoring) for update message from the directory service. Specifically, Lautmann states that *"there are plurality of different types of events which can lead to update of information within the directory service include: expiration of a timer within the directory service, stimulating the server to transmit an inquiry message to the router (i.e. network device), and the router responding to the inquiry message"* (col.5, lines 17-23).

15. With regard to claims 17, 21, 43, 47, 69, 73, 95 and 99, Lautmann and Willie disclose,

- *sending an information request message in the first communication protocol to each detected network device for which a change indication message was received; and*
- *receiving an information response message in the first communication protocol from each detected network device to which an information request message was sent, the information response message containing the information from the*

corresponding detected network device, wherein the information request message contains the network identification information related to the corresponding detected network device. (Lautmann, col.5, lines 16-30, lines 38-46; module 330, fig.2)

Lautmann teaches of obtaining update message from the directory service.

Specifically, Lautmann states that as *"new information becoming available to the router such as loss of contact with a neighbor router ... [then] ... transmit the new information to the directory service"* (col.5, lines 23-27) in respond to the inquiry messages.

16. With regard to claims 19-20, 22, 45-46, 48, 71-72, 74, 97-98 and 100, Lautmann and Willie disclose,

- *monitoring the network for issuance of a multicast message which indicates the identity of a directory entry that has been updated in the directory server.*

(Lautmann, col.5, lines 16-30, lines 38-46; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service. Specifically, Lautmann states that *"there are plurality of different types of events which can lead to update of information within the directory service include: expiration of a timer within the directory service, stimulating the server to transmit an inquiry message to the router (i.e. network device), and the router responding to the inquiry message"* (col.5, lines 17-23).

17. With regard to claims 26, 52, 78 and 104, Lautmann discloses,

- *detecting the presence of at least one of the plurality of network devices on the network by using a first communication protocol; (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-22; col.4, lines 62-65; module 204, fig.2)*

Lautmann teaches of detecting the presence of a DLSw router (network device) on the network by receiving a registration message from the DLSw router. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

- *obtaining, by using the first communication protocol, an information block from each of the detected network devices, wherein the information block contains information related to the corresponding network device; (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-23, lines 30-32; module 204, fig.2)*

Lautmann teaches of obtaining information related to the DLSw router such as the network address, number of packets transmitted/received, number of corrupted packets, etc. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

- *monitoring, by using the first protocol, each of the detected network devices for an update of the information in the information block of the network device;*

(Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-22; col.4, lines 62-65; module 204, fig.2)

Lautmann teaches of detecting the presence of a DLSw router (network device) on the network by receiving a registration message from the DLSw router. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

- *obtaining, in the case that the information in the information block of one of the detected network devices has been updated, the updated information of the information block from the corresponding network device by using the first communication protocol, and sending the updated information to the directory server by using the second communication protocol for placement into the directory entry for the corresponding network device;* (Lautmann, col.1, line 61 – col.2, line 2; col.2, lines 63-65; col.3, lines 21-23, lines 30-32; module 204, fig.2)

Lautmann teaches of obtaining information related to the DLSw router such as the network address, number of packets transmitted/received, number of corrupted packets, etc. It can be interpreted that the protocol used to supply the information to the directory server is SNMP. It is well known in the art that the SNMP protocol can be used to supply information such as network address to the Network Management Server.

- *monitoring, by using a third communication protocol, for issuance of an update message from the directory server indicating that a directory entry has been*

Art Unit: 2145

updated in the directory server; and (Lautmann, col.5, lines 38-46; module 330, fig.2)

Lautmann teaches of waiting (monitoring) for update message from the directory service.

- *obtaining, in the case that an update message is issued, the updated directory entry from the directory server by using the second communication protocol, extracting updated data from the updated directory entry, and sending the updated data to the network device which corresponds to the updated directory entry for placement into the information block of the corresponding network device. (Lautmann, col.5, lines 38-46; module 330, fig.2)*

Lautmann teaches of waiting (monitoring) for update message from the directory service.

However, Lautmann does not explicitly disclose,

- *formatting the obtained information into a directory entry; and*
- *sending the directory entry to a directory server by using a second communication protocol;*

Willie teaches,

- *formatting(invoking suitable functions) the obtained information into a directory entry (data module entry); and (Willie, col.8, lines 6-18; module 68; fig.2)*
- *sending the directory entry to a directory server (directory service 62) by using a second communication protocol (any distributed directory service, i.e. Novell Directory Services, LDAP); (Willie, col.7, line 56 – col.8, line 2; col.8, lines 23-45; module 62, fig.2)*

In summary, the Examiner maintains that Lautmann and Willie disclose a method that manage a plurality of network devices by first detecting their presence and obtaining related information using a first protocol; then, formatting (converting) the obtained information and register it as a directory entry in the directory server; and finally, monitoring for update message from the directory server, obtaining it, and processing it.

However, Lautmann and Willie do not explicitly disclose,

- *wherein the directory entry is formatted according to a standardized schema, and wherein the standardized schema of the directory entry includes a source flag to indicate the source of the directory entry.*

Galtzur teaches,

- *wherein the directory entry is formatted according to a standardized schema, and wherein the standardized schema of the directory entry includes a source flag to indicate the source of the directory entry. (Galtzur, col.41, lines 36-48)*

Galtzur teaches of utilizing an identifier flag to indicate the source of the associated data contained in the directory entry.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Galtzur with the teachings of Lautmann and Willie to enable for managing a distributed directory service which uses standard management protocols to generate notifications of events occurring within the distributed service and utilizing an identifier flag to indicate the source of the associated data contained in the directory entry. Furthermore, Lautmann and Willie do disclose a method that manage a plurality of network devices by first detecting their presence and obtaining related information using a first protocol; then,

formatting (converting) the obtained information and register it as a directory entry in the directory server; and finally, monitoring for update message from the directory server, obtaining it, and processing it.

Allowable Subject Matter

18. Claims 24-25, 50-51, 76-77, and 102-103 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
19. The following is a statement of reasons for the indication of allowable subject matter:
- *wherein the network includes an embedded-LDAP network device which contains all LDAP client, wherein the embedded-LDAP network device utilizes LDAP to send a direction entry to the direction server, the directory entry including a source-flag which is set to a high state, and wherein, in the case that an updated directory entry corresponding to the embedded-LDAP network device is detected by the directory plug-in module and the corresponding source flag of the updated directory entry is set to a low state, the directory plug-in module sends a unicast message over the network to the embedded-LDAP network device to indicate that an updated directory entry has been detected.*
 - *wherein the embedded-LDAP network device obtains, in response to the unicast message from the directory plug-in module, the updated directory entry from the directory server.*

Art Unit: 2145

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Duong whose telephone number is 571/272-3911. The examiner can normally be reached on M-F 7:30AM - 4:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 571/272-6159. The fax phone numbers for the organization where this application or proceeding is assigned are 703/872-9306 for regular communications and 703/872-9306 for After Final communications.

Thomas Duong (AU2145)

July 27, 2005


**PATRICE WINDER
PRIMARY EXAMINER**